

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

DATE MAILED: 08/28/2002

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/644,327	08/23/2000	Kenji Uchiyama	93198-000155	1081	
	7590 08/28/2002				
Harness Dickey & Pierce PLC			EXAMINER		
P O Box 828 Bloomfield Hills, MI 48303			DUDEK, JAM	DUDEK, JAMES ANDRE	
			ART UNIT	PAPER NUMBER	
			2871	<u>-</u>	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 42		[ A 1: 4/ a)			
•	<b>T</b>	Application		Applicant(s)			
ن ن	Office Action Symmony	09/644,327		UCHIYAMA, KENJI			
•	Office Action Summary	Examiner	<del></del>	Art Unit			
		James A. Dudek		2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failture to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)	Responsive to communication(s) filed on						
2a)□	This action is <b>FINAL</b> . 2b)⊠ 1	This action is non-f	inal.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
,	<ul> <li>Claim(s) 1-18 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>						
	5) Claim(s) is/are allowed.						
· ·							
·	6)⊠ Claim(s) <u>1-18</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
·		or election require	ement.				
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9) 🗌 🤈	The specification is objected to by the Examir	ner.					
10) 🗌 🤄	The drawing(s) filed on is/are: a)□ acc	epted or b) 🔲 objec	ted to by the Exar	miner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	The proposed drawing correction filed on	is: a)⊡ approv	ed b)⊡ disappro	ved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 5 . 6)		r (PTO-413) Paper No(s) Patent Application (PTO-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear if the insulating layer and the overcoat are separate layers form from the same material or other the same layer.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35-U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Kim et al patent ('856).

Per claim 1 and 12-13, '856 teaches a pair of substrates (130,110), each having an opposing face opposing each other with liquid crystal interposed therebetween, the opposing faces being provided with electrodes (134,112),

a protruding portion (not explicitly taught but notoriously well known as described below);

aluminum electrodes formed on the protruding portion and electrically connected with said electrodes (72);

an overcoat layer of an inorganic substance covering the aluminum electrodes (112,124).

Lacking is an explicit teaching that the pad region is protruding from the opposing substrate. However, if the '856 reference doesn't having a protruding portion it was well known

for simplifying the attaching of the control circuits to the cell. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to combine a well known protruding portion of the substrates in the pad region of '856 in order to simplify the process of attaching the control circuitry.

Per claim 2, since the insulating layer is formed as the same layer as the overcoat, they appear to be the same layer and as such 124 act as an insulating layer.

Per claim 3, this is a product by process limitation, see MPEP 2100.

Per claim 4, electrodes 112 are also formed when the pad electrodes 112 are formed.

Per claim 5, see figures.

Per claim 6-9, '856 lacks the anisotropic conductive film and the overlaying the conductive film with the overcoat. However, it was well known to use anisotropic conductive film to connect external circuitry in order to ensure a good electrical bond and a good bond of the TAB to the substrate to overlay the film on the overcoat. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to combine the well known anisotropic conductive film with '856 to attach the necessary external circuitry in order to ensure a good electrical bond and to attach to the overcoat also to ensure a good bond.

Per claim 10, the process of connecting the external circuitry to the substrate includes melting the film to form the bond.

Per claim 11, this is product by process limitation and the resulting product is given weight.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 308-4782. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William L Sikes can be reached on 703-308-4842. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-7721 for After Final communications.

Application/Control Number: 09/644,327

Art Unit: 2871

Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Primary Examiner
Art Unit 2871

August 21, 2002